

## Research processing of tool steels surface in low pressure glow discharge

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### Abstract

© Published under licence by IOP Publishing Ltd. Plasma ion nitriding processing in glow discharge occurs on whole surface of product. Structure and phase composition of the diffusion layer defined by the phase diagram of iron - nitrogen. Low-pressure glow discharge in cross-flow working gas treatment takes place mainly by the working gas stream, which will hold required nitriding surfaces. In addition, low-pressure environment in chamber will reduce the effect of residual gas contaminants on processing surface.

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